

DRAWING LIST

G-001	TITLE SHEET
A-100	SITE-ROOF PLAN
A-101	ROOF PLAN
A-501	ROOF DETAILS
A-502	ROOF DETAILS



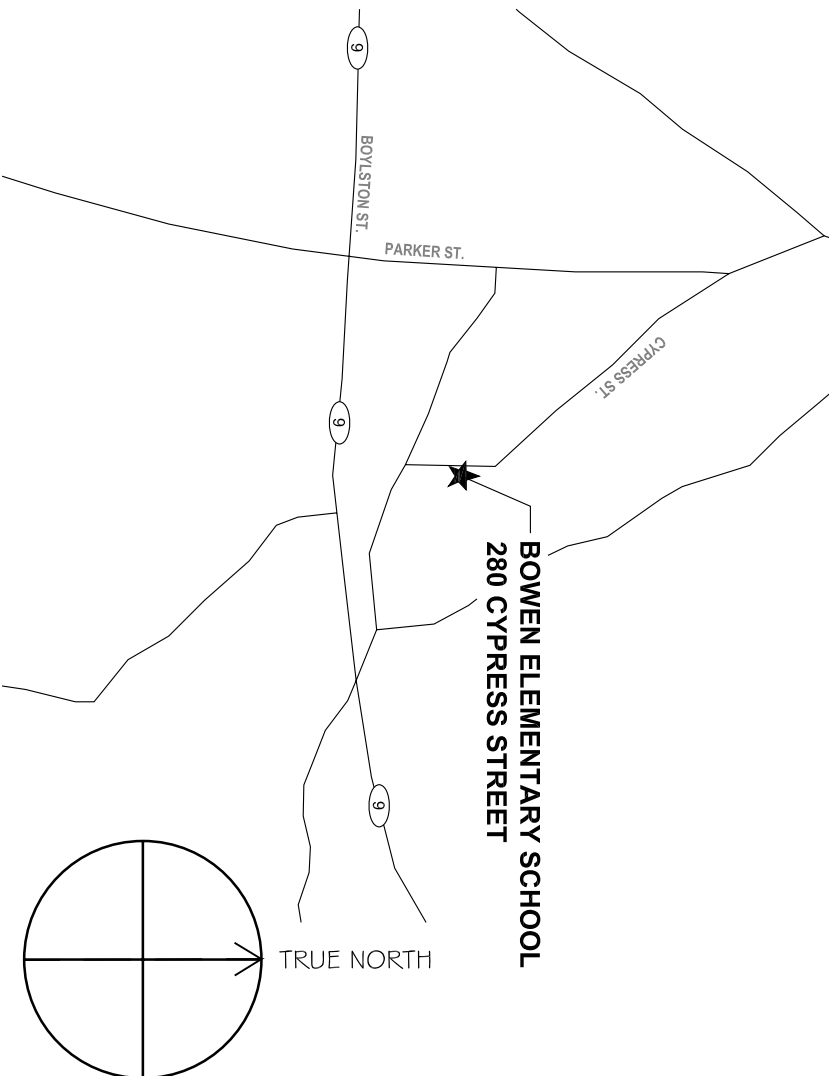
HABEEB & ASSOCIATES  
ARCHITECTS, INC.

ROOF REPLACEMENT

BOWEN ELEMENTARY  
SCHOOL

280 CYPRESS STREET NEWTON CENTRE, MASSACHUSETTS

LOCUS PLAN (NOT TO SCALE)



REVISIONS:		
MARK:	DATE:	DESCRIPTION:

PROJECT NO. 11105
DATE: 09-06-11
SCALE: AS NOTED
DRAWN:
CHECKED BY:

TITLE SHEET

G-001

SITE - ROOF PLAN GENERAL NOTES

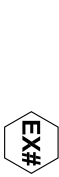
- ANY AND ALL DAMAGED SITE CONDITIONS DUE TO THE ROOF REPLACEMENT SCOPE OF WORK, INCLUDING BITUMINOUS PAVING, CONCRETE SIDEWALKS AND CURBS, LAWNS, TREES, SHRUBS, BUILDINGS AND VEHICLES, BUT NOT LIMITED TO CONSTRUCTION RELATED WORK SHALL BE REPLACED.
- CONTRACTOR MUST PROTECT EXISTING ROOFING THAT IS TO REMAIN. ALL DAMAGE TO EXISTING ROOF SHALL BE REPAIRED.
- PROVIDE TEMPORARY CONSTRUCTION STAIR TO ROOF, FENCE AND GATE.

SITE - ROOF PLAN LEGEND

AREA OF WORK TO BE PERFORMED  
- SEE EXISTING ROOF SYSTEM TYPE SCHEDULE ON SHEET A-100  
- SEE ROOF SYSTEM TYPE SCHEDULE ON SHEET A-101 FOR ROOFING MATERIAL TO BE REMOVED  
- SEE ROOF SYSTEM TYPE SCHEDULE ON SHEET A-101 FOR ROOFING CONSTRUCTION MATERIAL

EXISTING ROOF SYSTEM TO REMAIN  
- AREA NOT IN CONTRACT

EXISTING ROOF SYSTEM TYPE INDICATOR  
- SEE EXISTING ROOF SYSTEM TYPE SCHEDULE  
CONTRACTOR STORAGE AND TRAILER ZONE  
- SEE SITE - ROOF PLAN GENERAL NOTES (3)



ROOF CODE SUMMARY

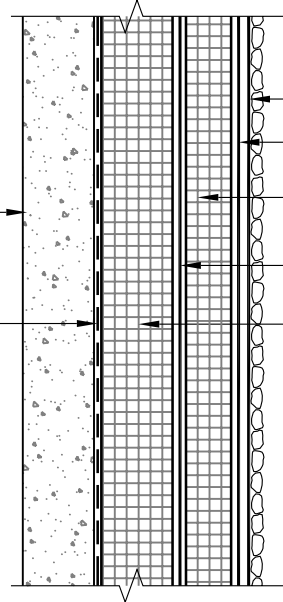
REQUIRED R VALUE 25 MSBA REQUIRES CODE COMPLIANCE WITH SECTION 1.20 AA.

CALCULATIONS FOR HEAT LOSS

OUTSIDE AIR FILM	0.17
ROOF MEMBRANE	0.05
PROTECTION BOARD	0.56
ROOF INSULATION	25.00
VAPOR BARRIER	0.00
CONCRETE DECK	0.05
INSIDE CEILING	0.91
HUNG CEILING	0.13
INSIDE AIR FILM	0.61
TOTAL R VALUE	27.61

EXISTING ROOF SYSTEM TYPE SCHEDULE

- EXISTING STONE BALUST AND EPDM ROOF MEMBRANE TO BE REMOVED.
- EXISTING BUILT-UP ROOF MEMBRANE TO BE REMOVED.
- EXISTING ROOF INSULATION TO BE REMOVED.
- 2" FIBER BOARD
- EXISTING BUILT-UP ROOF MEMBRANE TO BE REMOVED.
- EXISTING ROOF INSULATION TO BE REMOVED.
- 3" POLYSTYRORENE



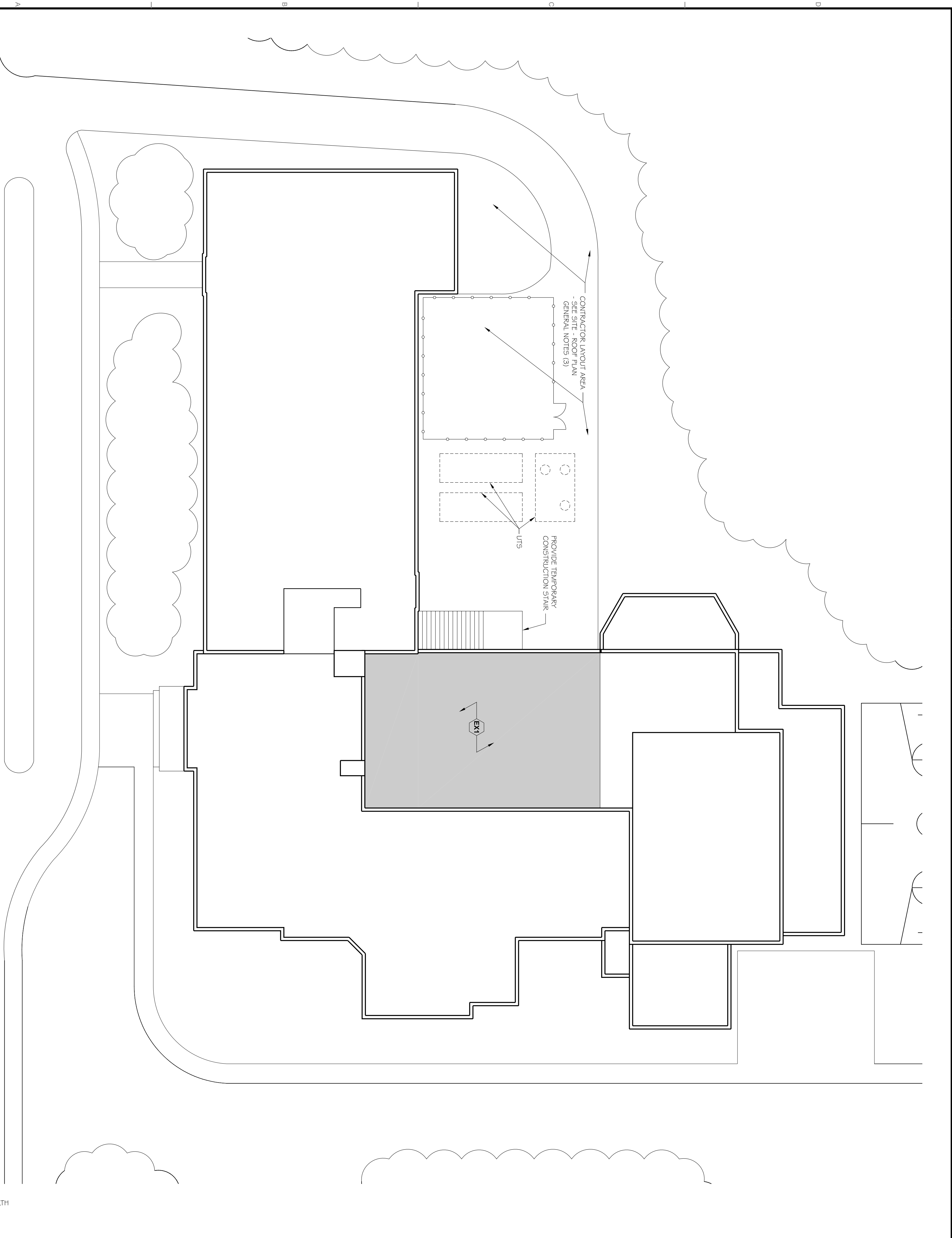
EXISTING BITUMINOUS FELT VAPOR BARRIER TO BE REMOVED.

- HOT MORTAR ASPHALT

EXISTING CONCRETE ROOF DECK TO REMAIN.

ROOF TYPE

SEE ROOF TYPE SYSTEM DETAIL R1 FOR ROOF CONSTRUCTION ON SHEET A-101



A1 SITE - ROOF PLAN

1/16"=1'-0"



HABIBEE & ASSOCIATES  
ARCHITECTS, INC.

150 LONGWATER DR  
NORWELL, MA  
02061-1518  
TEL: 781.871.9804  
FAX: 781.871.9805  
www.habibearch.com

ROOF REPLACEMENT  
**BOWEN ELEMENTARY SCHOOL**  
280 CYPRESS STREET NEWTON CENTRE, MA

REVISIONS:		MARK:	DATE:	DESCRIPTION:

PROJECT NO: 1105  
DATE: 09-06-11  
SCALE: AS NOTED  
DRAWN:  
CHECKED BY:

SITE-ROOF  
PLAN

A-100

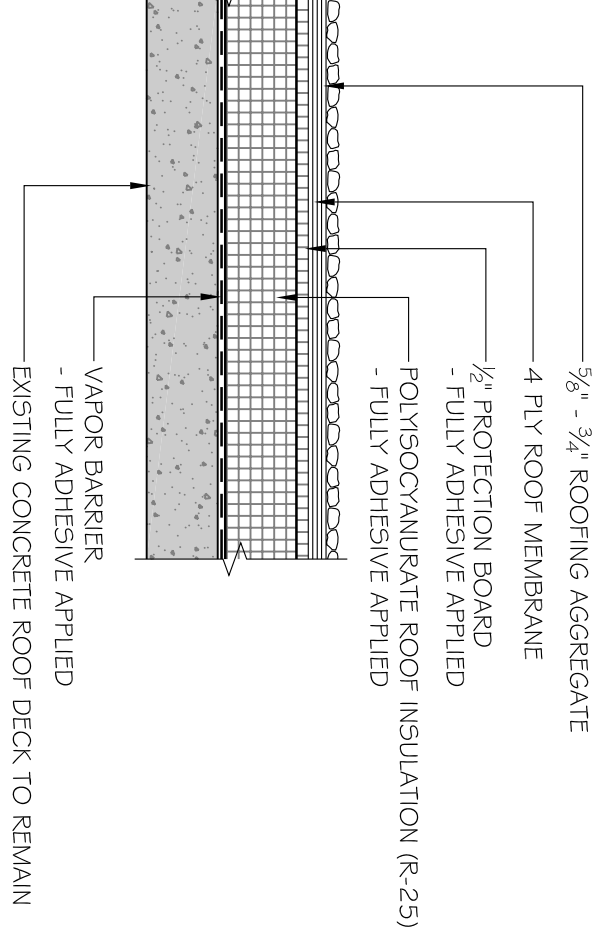
ROOF PLAN GENERAL NOTES

1. ROOF PLAN GENERAL NOTES AND LEGEND APPLY TO SHEETS A-101, A-501, AND A-502.
2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE MASSACHUSETTS STATE BUILDING CODE.
3. THE INFORMATION SHOWN ON THIS PLAN WAS COMPILED FROM VARIOUS SOURCES AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.
4. ALL DIMENSIONS SHOWN +/- ON ROOF PLANS SHALL BE VERIFIED IN FIELD.
5. ANY CONDITION NOT FOUND DETAILED SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THAT OF THE ROOF MEMBRANE MANUFACTURERS TYPICAL DETAILS.
6. ALL MATERIALS SHOWN ON THE ROOFING DETAILS ARE NEW UNLESS OTHERWISE NOTED.
7. ALL EQUIPMENT, PIPES, WIRES, EXISTING ROOFING AND STRUCTURE TO BE REMOVED SHALL BE REMOVED AND DISCONNECTED AND RECONNECTED OR RELOCATION FOR INSTALLATION OF NEW ROOF SHALL BE DONE BY LICENSED ELECTRICIAN'S UNDER THE ROOF REPLACEMENT CONTRACT.
8. REMOVE, RAISE, AND REINSTALL ROOF TOP UNIT TO MAINTAIN ROOF MEMBRANE MANUFACTURERS MINIMUM FLASHING HEIGHTS. EQUIPMENT SHALL BE DISCONNECTED AND RECONNECTED BY LICENSED ELECTRICIANS, PLUMBERS AND HVAC CONTRACTORS UNDER THE ROOF REPLACEMENT CONTRACT. DRAIN AND REFRAKE REFERANT TO CONDENSER.

ROOF PLAN LEGEND

- TAPERED POLYISOCYANURATE INSULATION CRICKET
- SLOPE 1/2" PER FOOT
  - WALL BRACKETED LADDER
  - SEE DETAIL C2/A-502
- REPLACE ROOF DRAIN
- SLUMP INSULATION TO DRAIN
  - SEE DETAIL A1/A-501
  - CLEAR DRAIN LINE
- EXISTING PIPE PENETRATION
- SEE DETAIL C1/A-501
- EXISTING ROOF TOP UNIT TO REMOVED AND REINSTALLED
- DISCONNECTION AND RECONNECTION, SEE ROOF PLAN
  - GENERAL NOTE (6)
  - SEE DETAIL A2/A-501
- EXISTING ROOF TO WALL
- SEE DETAIL A1/A-502
  - SEE DETAIL A2/A-502
  - ALTERNATE NO. 1
  - EXISTING ROOF TO ROOF SLICE JOINT
  - SEE DETAIL C2/A-501
- WIRE / ELECTRICAL CONDUIT
- LOCATION OF REPLACED CONDUIT JUNCTION BOXES AND ELECTRICAL WIRE SHALL BE ATTACHED TO SIDE / TOP OF PARAPET.
  - SEE DETAIL A4/A-501 FOR ADDITIONAL INFORMATION
  - SEE ROOF GENERAL NOTE (7)
- ELEVATION MARKER
- RELATIVE TO GROUND: 0'-0"
- ROOF SYSTEM TYPE INDICATOR
- SEE ROOF SYSTEM TYPE SCHEDULE ON SHEET A-101
- ±XX.XX" ELEVATION
- XXX ELEVATION

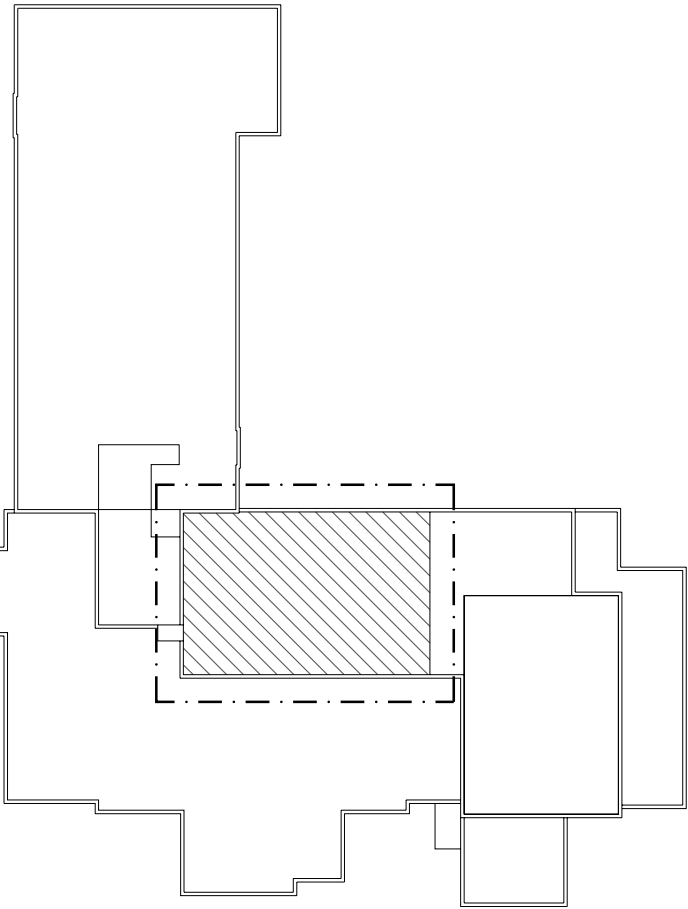
ROOF SYSTEM TYPE SCHEDULE



ROOF TYPE

- VAPOR BARRIER
- FULLY ADHESIVE APPLIED
- EXISTING CONCRETE ROOF DECK TO REMAIN

KEY PLAN (NOT TO SCALE)



REVISIONS:		MARK:	DATE:	DESCRIPTION:

PROJECT NO:	11105
DATE:	09-06-11
SCALE:	AS NOTED
DRAWN:	
CHECKED BY:	

ROOF REPLACEMENT  
**BOWEN ELEMENTARY SCHOOL**  
280 CYPRESS STREET      NEWTON CENTRE, MA

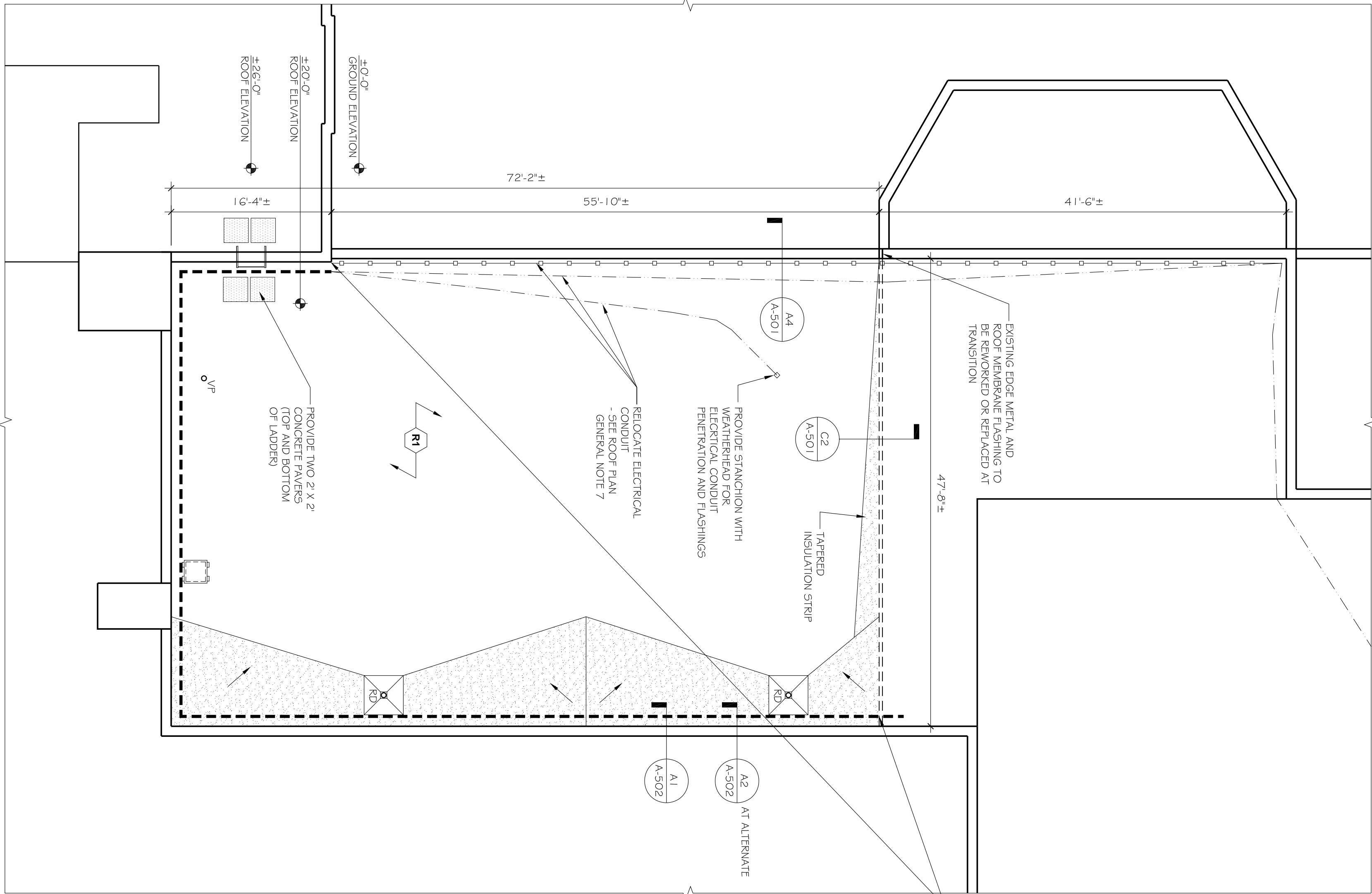


**HABEEB & ASSOCIATES**  
ARCHITECTS, INC.

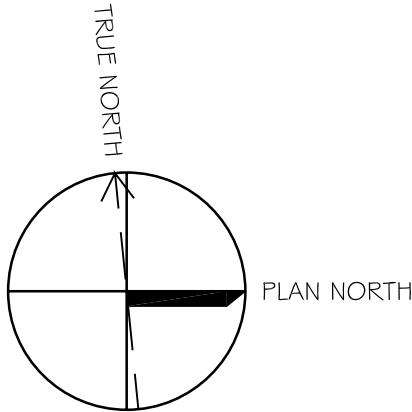
ROOF PLAN

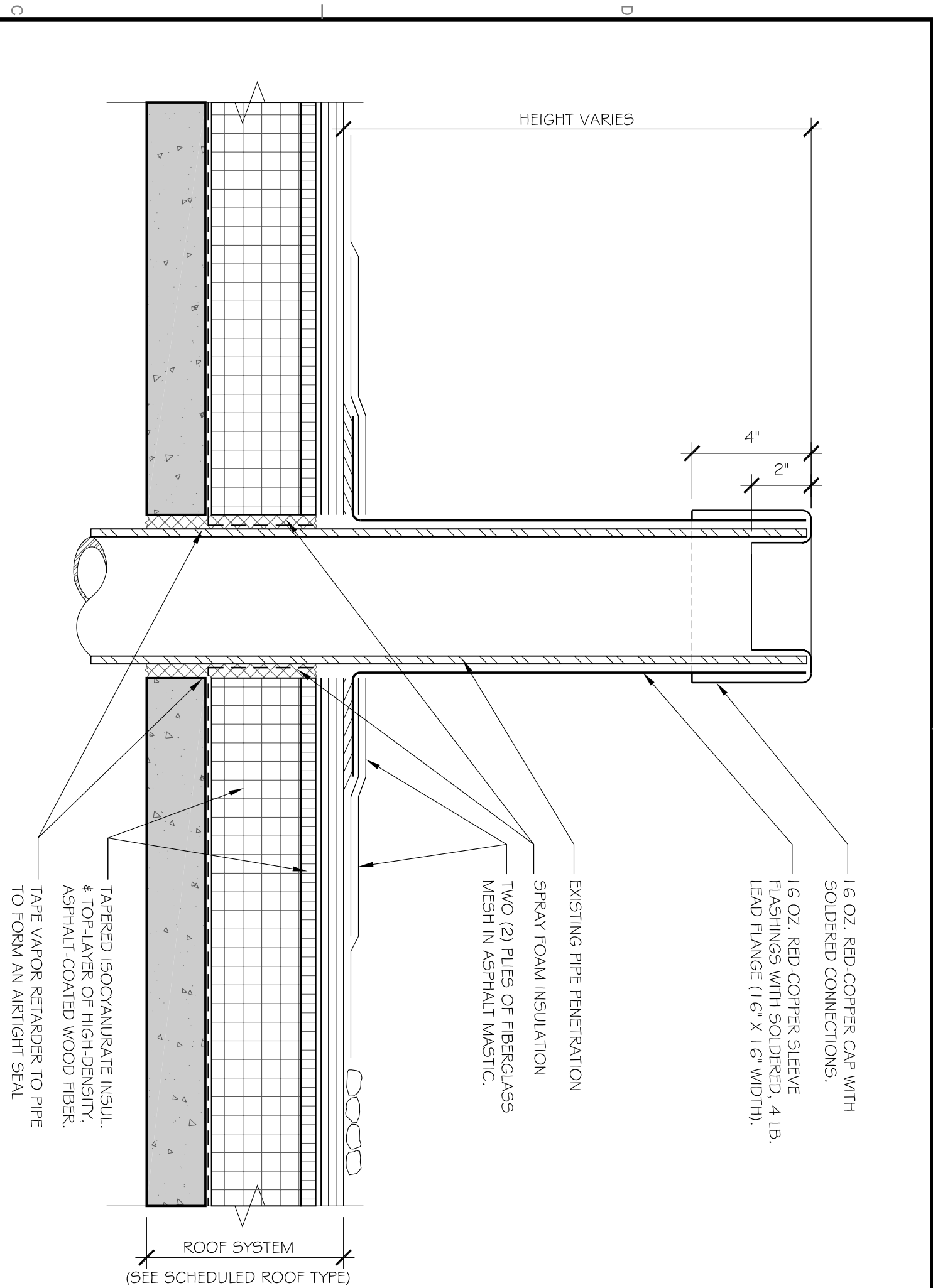
**A1** ROOF PLAN

1/8"=1'-0"

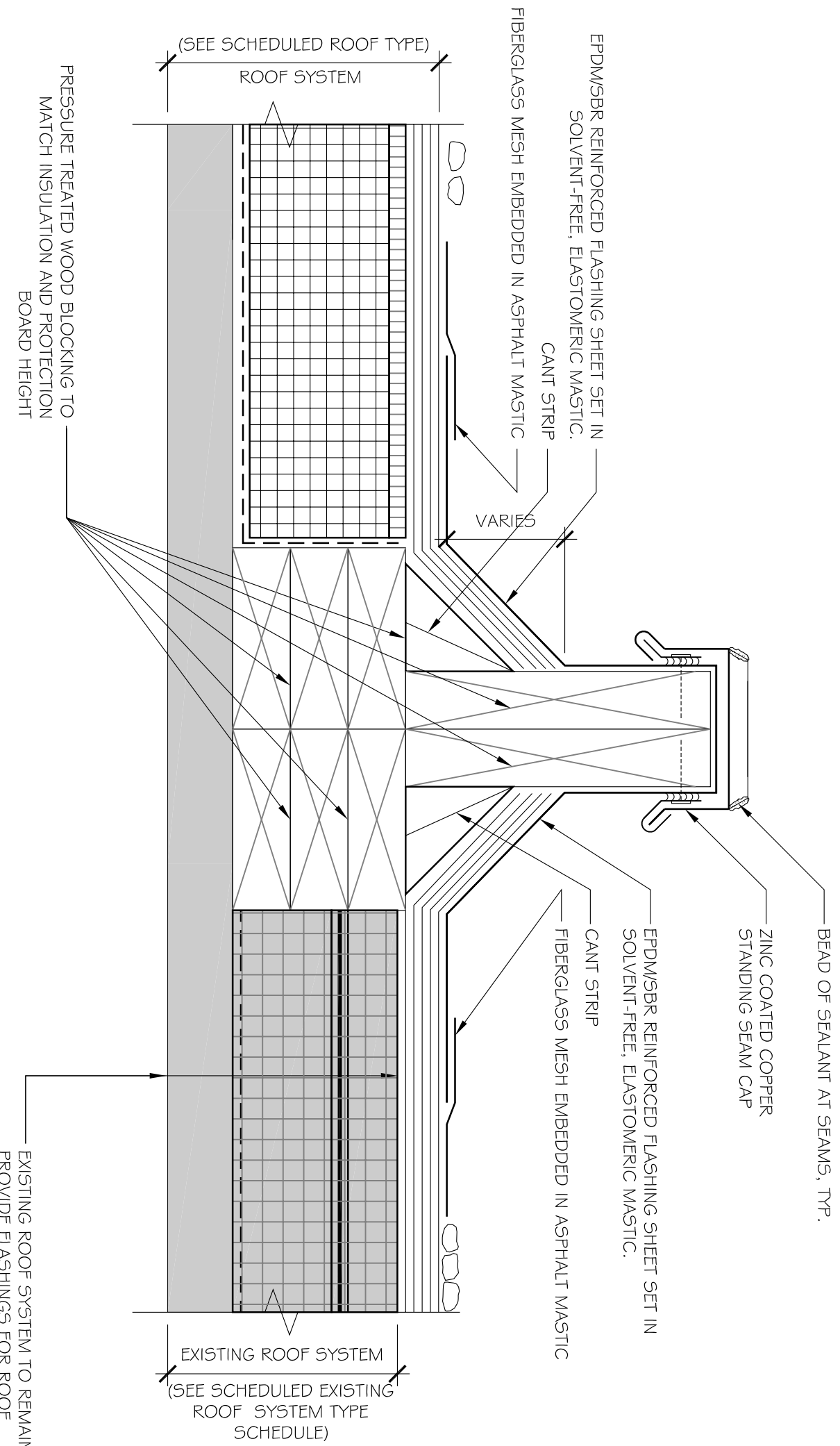
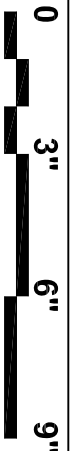


AT THE LOCATION OF WHERE THE TRANSITION BETWEEN NEW WORK AND EXISTING EXTERIOR WALL PROVIDE A BLIND FLASHING CONDITION

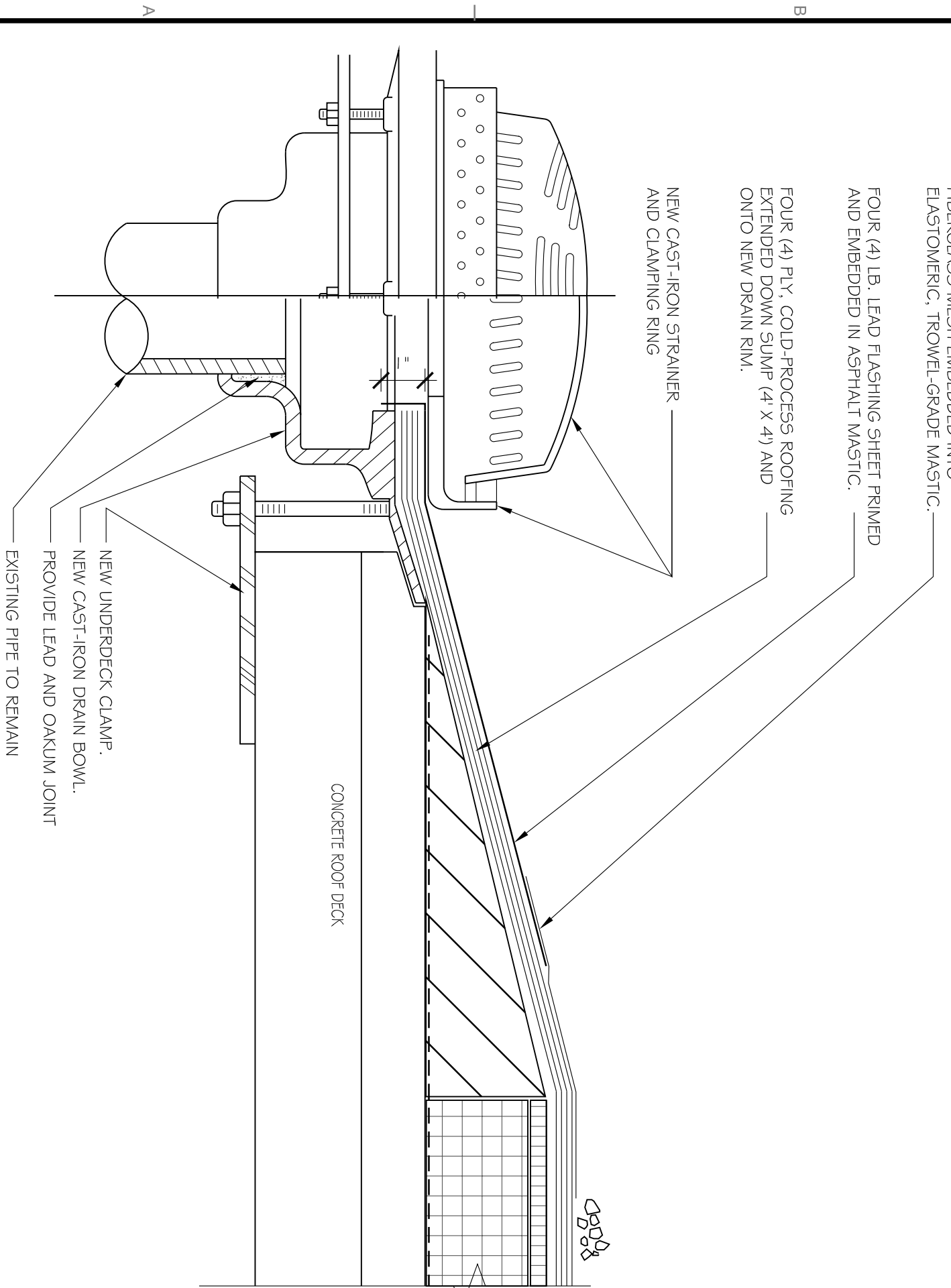
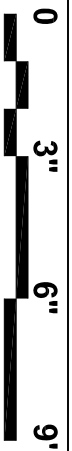




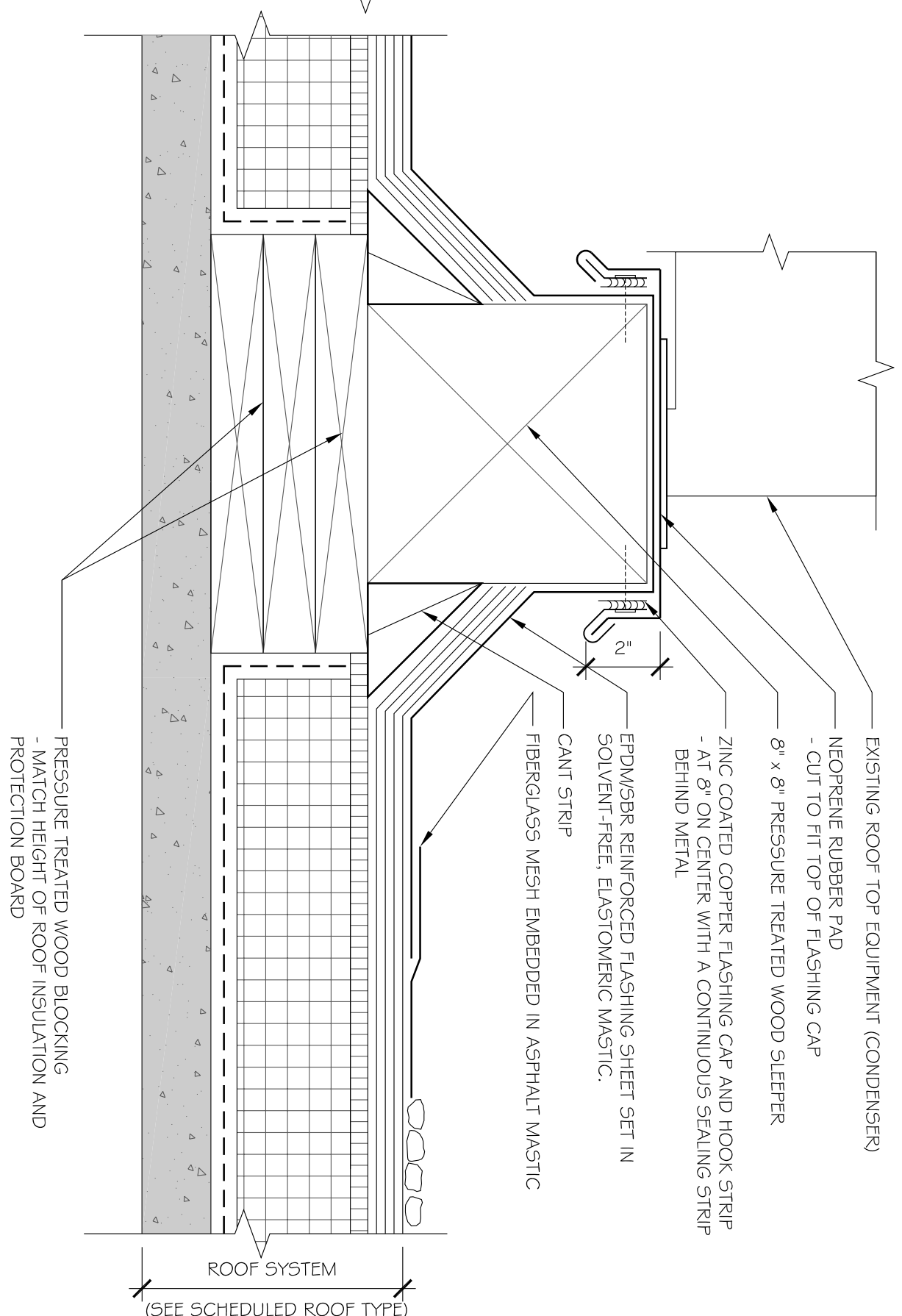
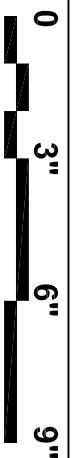
**C1** TYPICAL VENT STACK DETAIL AT PIPE PENETRATION



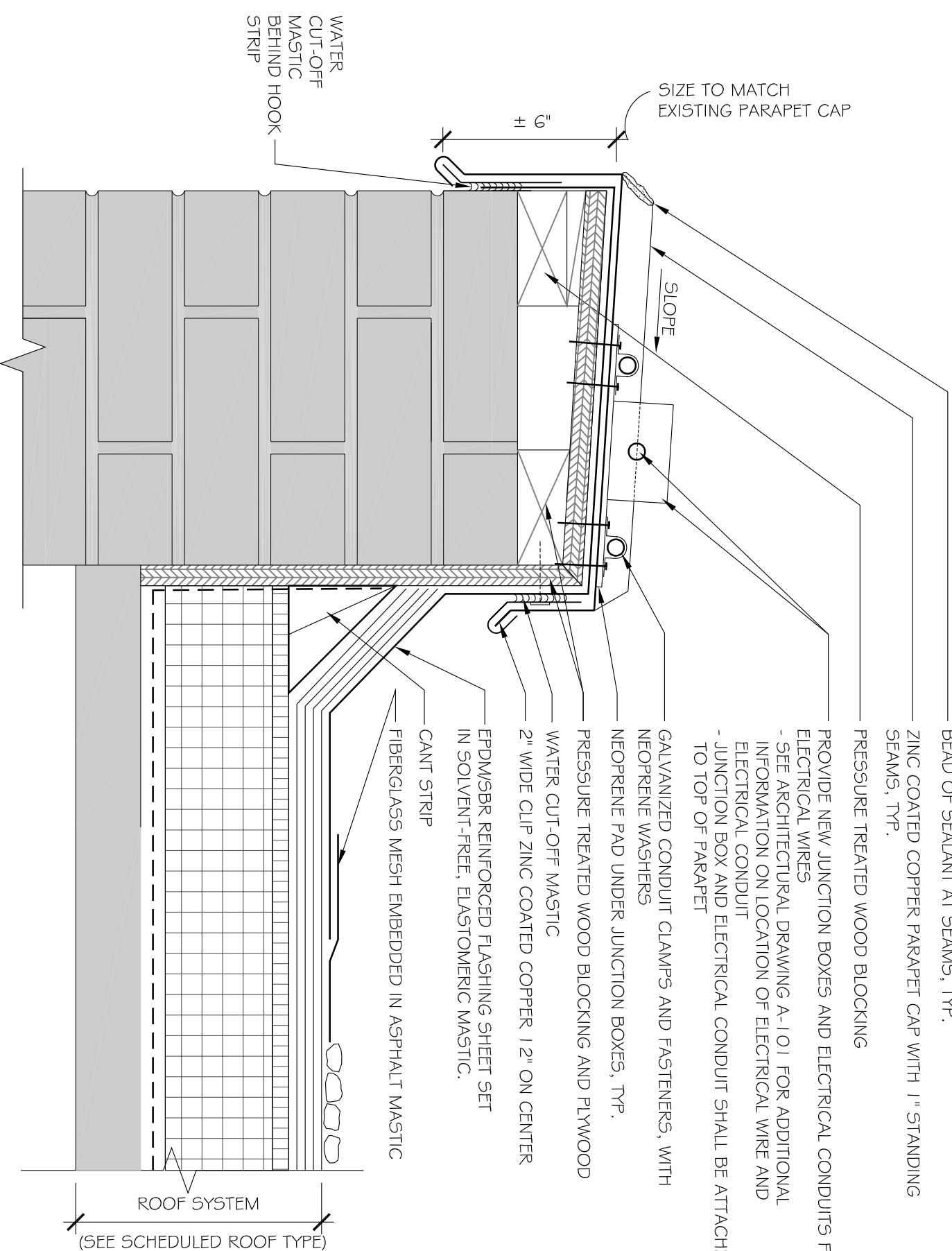
**C2** TYPICAL ROOF TO ROOF TRANSITION DETAIL



**A1** TYPICAL SECTION AT ROOF DRAIN



**A2** FLASHING DETAIL AT WOOD SLEEPER



**A4** TYPICAL FLASHING DETAIL AT PARAPET

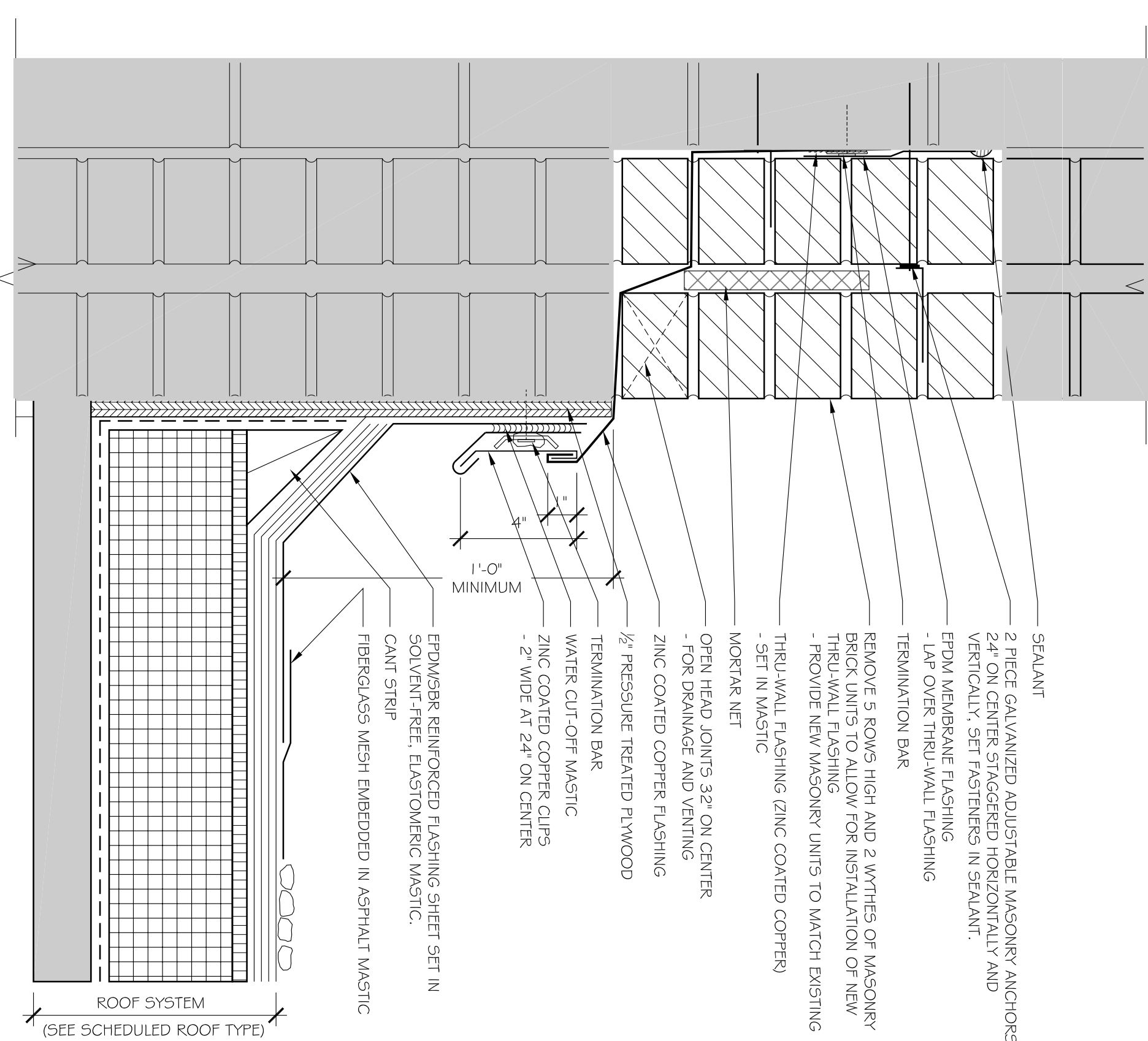


REVISIONS:		
MARK:	DATE:	DESCRIPTION:

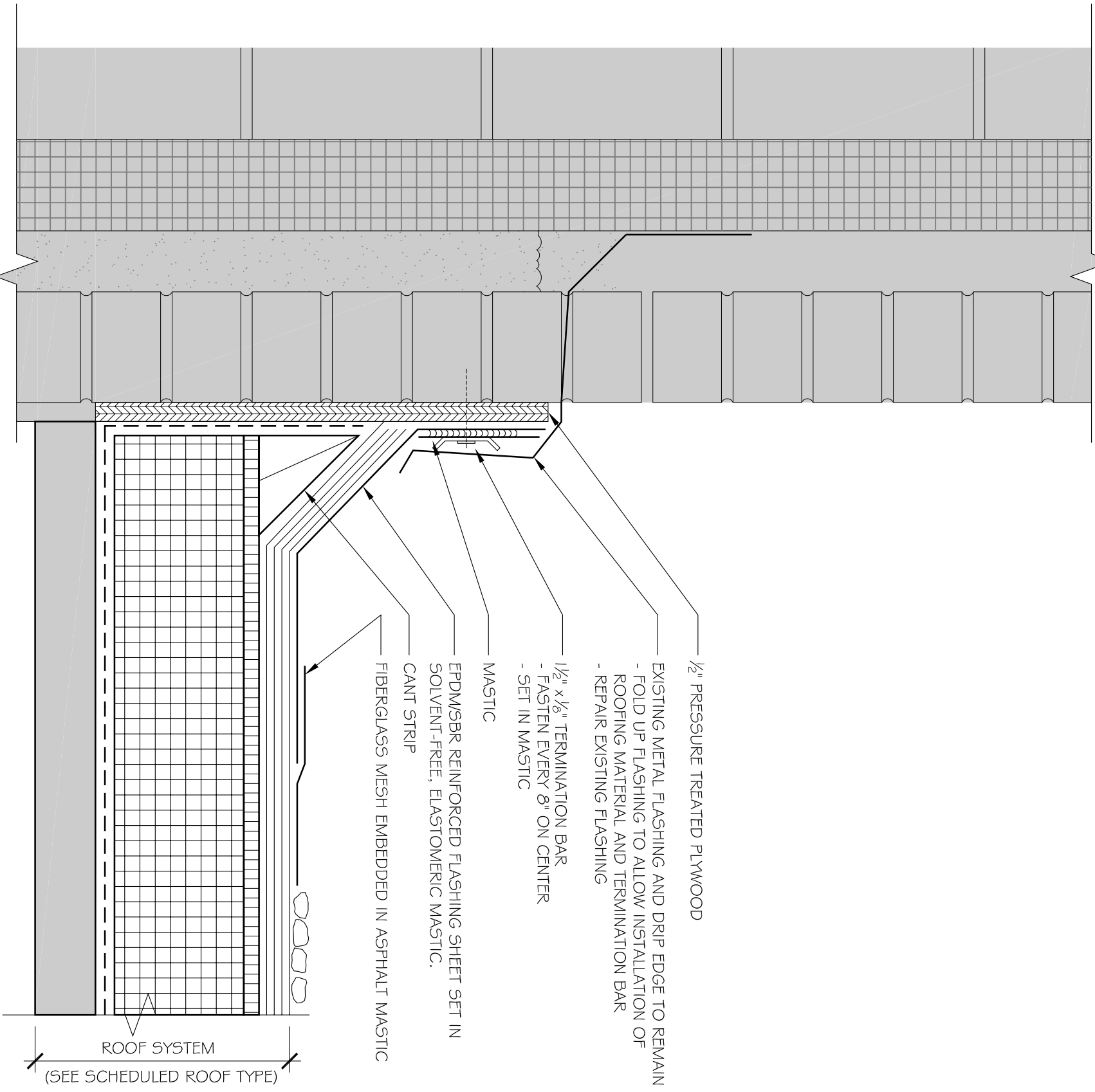
PROJECT NO.:	1105
DATE:	09-06-11
SCALE:	AS NOTED
DRAWN:	
CHECKED BY:	

ROOF DETAILS

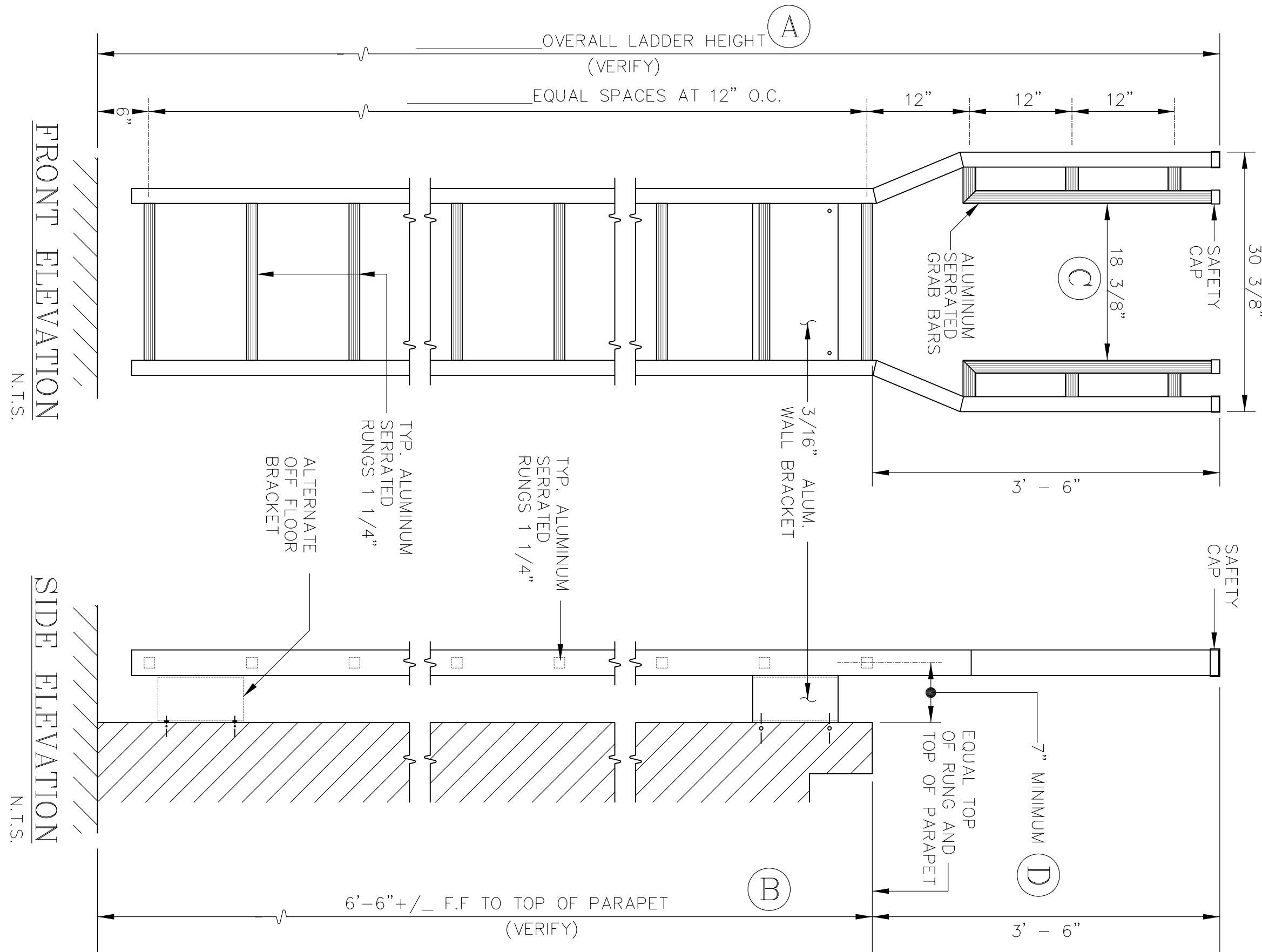
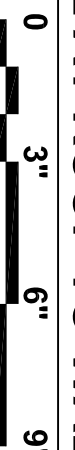
C1 NOT USED



A1 TYPICAL FLASHING DETAIL AT ROOF TO WALL



A2 ALTERNATE NO. 1  
TYPICAL FLASHING DETAIL AT ROOF TO WALL



C2 SECTION DETAIL AT ROOF LADDER

N.T.S.

FRONT ELEVATION  
N.T.S.

SIDE ELEVATION  
N.T.S.

REVISIONS:		
MARK:	DATE:	DESCRIPTION:

ROOF REPLACEMENT  
**BOWEN ELEMENTARY SCHOOL**  
280 CYPRESS STREET      NEWTON CENTRE, MA

PROJECT NO.: 11105  
DATE: 09-02-11  
SCALE: AS NOTED  
DRAWN:  
CHECKED BY:

ROOF DETAILS

A-502

**H&A**  
150 LONGWATER DR  
NORWELL, MA  
02061-1518  
TEL: 781 871 9804  
FAX: 781 871 9805  
www.habeesearch.com

**HABEEB & ASSOCIATES**  
ARCHITECTS, INC.